



# FULBRIGHT & JAWORSKI L.L.P.

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600 CONGRESS AVENUE, SUITE 2400  
AUSTIN, TEXAS 78701-3271  
WWW.FULBRIGHT.COM

MBWILSON@FULBRIGHT.COM  
DIRECT DIAL: (512) 536-3035

TELEPHONE: (512) 474-5201  
FACSIMILE: (512) 536-4598

November 26, 2003

CERTIFICATE OF MAILING 37 C.F.R 1.8	
I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: MS DD, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313- 1450 on the date below:	
November 26, 2003	
Date	Mark B. Wilson

MS DD  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

RE: *U.S. Patent Application No. 10/667,534 entitled "METHOD FOR THE DEVELOPMENT OF AN HIV VACCINE" – Adan Rios*  
*Our reference: RIOS:004USC2*

Sir:

Enclosed for filing in the above-referenced patent application is an Information Disclosure Statement and Form PTO-1449.

No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to the enclosed materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/RIOS:004USC2.

Please date stamp and return the enclosed postcard evidencing receipt of these materials.

Respectfully submitted,



Mark B. Wilson  
Reg. No. 37,259

MBW/cas  
Encl.: As noted

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Adan Rios

Serial No.: 10/667,534

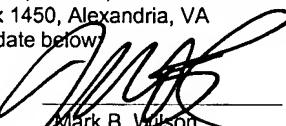
Filed: September 22, 2003

For: METHOD FOR THE DEVELOPMENT OF  
AN HIV VACCINE

Group Art Unit: Unknown

Examiner: Unknown

Atty. Dkt. No.: RIOS:004USC2

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Date	Mark B. Wilson

INFORMATION DISCLOSURE STATEMENT

**MS DD**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record.

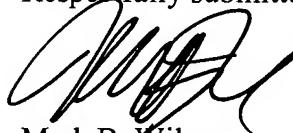
In accordance with 37 C.F.R. §§ 1.97(g), (h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R. § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/RIOS:004USC2.

This application is a divisional application of Serial No. 09/638,833, filed August 14, 2000 and is relied upon for an earlier filing date under 35 U.S.C. § 120. In accordance with Rule 37 C.F.R. § 1.98(d) copies of the listed documents are not enclosed as they have been previously cited by or submitted to the Patent and Trademark Office in prior application Serial No. 09/638,833.

Applicant respectfully requests that the listed documents be made of record in the present case.

Respectfully submitted,



Mark B. Wilson  
Reg. No. 37,259  
Attorney for Applicant

FULBRIGHT & JAWORSKI L.L.P.  
600 Congress Avenue, Suite 2400  
Austin, Texas 78701  
(512) 474-5201

Date: November 26, 2003

Form PTO-1449 (modified)

Atty. Docket No.

Serial No.

RIOS:004USC2

10/667,534

Applicant

Adan Rios

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September 22, 2003

Group:

Unknown

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**U.S. Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A1	5,849,475	12/15/98	Rovinski <i>et al.</i>	435	5	5/30/95
	A2	5,919,458	7/6/99	Aldovini <i>et al.</i>	424	188.1	6/7/95
	A3	6,017,543	1/25/00	Salk <i>et al.</i>	424	208.1	6/5/95
	A4	6,080,408	6/27/00	Rovinski <i>et al.</i>	424	188.1	6/7/95

**Foreign Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No

**Other Art (Including Author, Title, Date Pertinent Pages, Etc.)**

Exam. Init.	Ref. Des.	Citation
✓	C1	"Aronex HIV inhibitor nears patent issuance," <i>Reuters NewMedia, Inc.</i> , February 23, 1996, Abstract.
✓	C2	"Aronex reports preliminary clinical results on its HIV integrase inhibitor, zintevir (TM)," <i>PR Newswire</i> , November, 12, 1996, Abstract.
✓	C3	Ada, "An Immunologist's View of HIV Infection," <i>Textbook of AIDS Medicine</i> , Chapter 6, pp. 77-87, Brother <i>et al.</i> , eds., Williams & Wilkens, Baltimore, MD, 1994.
✓	C4	Ada, "Modern vaccines, the immunological principles of vaccination," <i>The Lancet</i> , 335:523-526, 1990.
✓	C5	Albert, <i>et al.</i> , "Dendritic cells acquire antigen from apoptotic cells and induce class I-restricted CTls," <i>Nature</i> , 392:86-89, 1998.
✓	C6	Aldrovandi <i>et al.</i> , "The SCID-hu mouse as a model for HIV-1 infection," <i>Nature</i> , 363:732-736, 1993.
✓	C7	Amadori <i>et al.</i> , "The hu-PBL-SCID mouse in human lymphocyte function and lymphomagenesis studies: achievements and caveats," <i>Semin Immunol</i> , 8:249-254, 1996.

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EXAMINER:

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EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.



Form PTO-1449 (modified)		Atty. Docket No. RIOS:004USC2	Serial No. 10/667,534
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Adan Rios	
		Filing Date: September 22, 2003	Group: Unknown
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*	C8	Baba <i>et al.</i> , "Pathogenicity of live, attenuated hiv after mucosal infection of neonatal macaques," <i>Science</i> , 267:1820-1825, 1995.
*	C9	Bachmann and Zinkernagel, "Neutralizing antiviral b cell responses," <i>Annu. Rev. Immunol.</i> , 15:235-270, 1997.
*	C10	Balter, "A cluster of Europe's aids research stars," <i>Science</i> , 280:1862, 1998c.
*	C11	Balter, "Duo brings hope of immune restoration," <i>Science</i> , 280:1861, 1998b.
*	C12	Balter, "Global program struggles to stem the flood of new cases," <i>Science</i> , 280:1863-1864, 1998d.
*	C13	Balter, "HIV incidence: 'more serious than we imagined'," <i>Science</i> , 280:1864, 1998e.
*	C14	Balter, "Modest briton stirs up storm with views on role of CTLs," <i>Science</i> , 280:1860-1861, 1998a.
*	C15	Balter, "T cell production slowed, not exhausted?" <i>Science</i> , 283(5400):305-306, 1999.
*	C16	Baltimore, "Lessons from people with nonprogressive hiv infection," <i>The New England J. of Medi.</i> , 332:259-260, 1995.
*	C17	Banchereau and Steinman, "Dendritic cells and the control of immunity," <i>Nature</i> , 392:245-252, 1998.
*	C18	Barnard <i>et al.</i> , "The thiocarboxanilide nonnucleoside uc781 is a tight-binding inhibitor of hiv-1 reverse transcriptase," <i>Biochem.</i> , 36:7786-7792, 1997.
*	C19	Barr, "Vaccines for HIV, HIV therapeutic vaccines: the next phase," <i>GMHC's Treat. Iss.</i> , Vol. 7, No. 5, 1993.
*	C20	Bender <i>et al.</i> , "Inactivated influenza virus, when presented on dendritic cells, elicits human cd8 <sup>+</sup> cytolytic t cell responses," <i>J. Exp. Med.</i> , 12:1663-1671, 1995.
*	C21	Berger <i>et al.</i> , "A new classification of HIV-1," <i>Nature</i> , 391:340, 1998.
*	C22	Blauvelt <i>et al.</i> , "Productive infection of dendritic cells by hiv-1 and their ability to capture virus are mediated through separate pathways," <i>The J. of Clin. Invest.</i> , 100:2043-2053, 1997.
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Form PTO-1449 (modified)

Atty. Docket No.  
RIOS:004USC2Serial No.  
10/667,534

## List of Patents and Publications f r Applicant's

Applicant  
Adan Rios

## INFORMATION DISCLOSURE STATEMENT

Filing Date:  
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*	C24	Bombil <i>et al.</i> , "A promising model of primary human immunization inhuman-scid mouse," <i>Immunobiology</i> , 195:360-375, 1996 (Abstract).
*	C25	Borkow <i>et al.</i> , "Chemical barriers to human immunodeficiency virus type 1 (hiv-1) infection: retrovirucidal activity of uc781, a thiocarboxanilide nonnucleoside inhibitor of hiv-1 reverse transcriptase," <i>J. of Virol.</i> , 71:3023-3030, 1997.
*	C26	Borkow <i>et al.</i> , "Chemical barriers to Human Immunodeficiency Virus type 1 (HIV-1) infection: retrovirucidal activity of UC781, a thiocarboxanilide nonnucleoside inhibitor or HIV-1 reverse transcriptase," <i>Journal of Virology</i> 71(4):3023-3030, 1997.
*	C27	Borkow <i>et al.</i> , "Inhibition of the ribonuclease H and DNA polymerase activities of hiv-1 reverse transcriptase by n-(4-tert-butylbenzoyl)-2-hydroxy-1-naphthaldehyde hydrazone," <i>Biochemistry</i> , Abstract, 36(11):3179-3185, 1997.
*	C28	Bryson <i>et al.</i> , "Clearance of HIV infection in a perinatally infected infant," <i>The New Engl. J. of Med.</i> , 332:833-838, 1995.
*	C29	Buckheit <i>et al.</i> , "Efficacy pharmacokinetics and in vivo anti-HIV activity of the highly potent oxathiin carboxanilide analog, UC781," <i>Journal of Molecular Medicine</i> 75(7):b212-b213, 1997.
*	C30	Buckheit <i>et al.</i> , "Efficacy, Pharmacokinetics, and <i>in Vivo</i> Antiviral Activity of UC781, a Highly Potent, Orally Bioavailable Nonnucleoside Reverse Transcriptase Inhibitor of HIV Type 1," <i>Aids Res. and Hu. Retro.</i> , 13:789-796, 1997.
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*	C32	Burton and Montefiori, "The antibody response in HIV-1 infection," <i>Aids</i> , 11:S87-S98, 1997.
*	C33	Cao <i>et al.</i> , "Virologic and immunologic characterization of long-term survivors of human immunodeficiency virus type 1 infection," <i>The New Engl. J. of Med.</i> , 332:201-216, 1995.
*	C34	Carlson <i>et al.</i> , "Vaccine Protection of Rhesus Macaques Against Simian Immunodeficiency Virus Infection," <i>AIDS Res. and Hum. Retroviruses</i> , 6:1239-1246, 1990.
*	C35	Cavert and Haase, "A national tissue bank to track HIV eradication and immune reconstitution," <i>Science</i> , 280:1865-1866, 1998.
*	C36	Cella <i>et al.</i> , "Inflammatory stimuli induce accumulation of MHC class II complexes on dendritic cells," <i>Nature</i> , 388:782-792, 1997.

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✗	C38	Clerici <i>et al.</i> , "HIV-specific t-helper activity in seronegative health care workers exposed to contaminated blood," <i>JAMA</i> , 271:42-46, 1994.
✗	C39	Clotet <i>et al.</i> , "Long-term survivors of human immunodeficiency virus type I infection," <i>The New England Journal of Medicine</i> , 332(24):1646-1647, 1995.
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✗	C43	Constant and Bottomly, "Induction of TH1 and TH2 CD4 <sup>+</sup> T cell responses: the alternative approaches," <i>Annu. Rev. Immunol.</i> , 15:297-322, 1997.
✗	C44	Daniel, <i>et al.</i> , "A role for DNA-PK in retroviral DNA integration," <i>Science</i> , 284:644-647, 1999.
✗	C45	DeNoon, "AIDS Therapies: new integrase inhibitor enhances other anti-HIV drugs," <i>AIDSWEEKLY Plus</i> , November 23, 1998, Abstract.
✗	C46	Doherty and Zinkernagel, "A Biological role for the major histocompatibility antigens," <i>The Lancet</i> , 1406-1409, 1975.
✗	C47	Doherty and Zinkernagel, "The Specificity of the Cell Mediated Immune Defense," <i>The Nobel Assembly at the Karolinska Institute</i> , Press Release October 7, 1996.
✗	C48	Dragic <i>et al.</i> , "HIV co-receptors: gateways to the cell," <i>HIV Advances in Research and Therapy</i> , 7(3):2-12, 1997.
✗	C49	D'Souza <i>et al.</i> , "Neutralization of primary HIV-1 isolates by anti-envelope monoclonal antibodies," <i>AIDS</i> , 9:867-874, 1995.
✗	C50	Dutton <i>et al.</i> , "T cell memory," <i>Annu. Rev. Immunol.</i> , 16:201-223, 1998.
✗	C51	Emeran and Malim, "HIV-1 regulatory/accessory genes: keys to unraveling viral and host cell biology," <i>Science</i> , 280:1880-1884, 1998.

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Atty. Docket No.

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RIOS:004USC2

10/667,534

## List of Patents and Publications for Applicant's

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Applicant

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	C56	Frankel and Young, "HIV-1: fifteen proteins and an RNA," <i>Annu. Rev. Biochem.</i> , 67:1-25, 1998.
	C57	Gibbons <i>et al.</i> , "Thy/Liv-SCID-Hu mice implanted with human intestine: an <i>in vivo</i> model for investigation of mucosal transmission of HIV," <i>Aids Res. and Hum. Retrovir.</i> , 13:1453-1460, 1997.
	C58	Glenn <i>et al.</i> , "Skin immunization made possible by cholera toxin," <i>Nature</i> , 391:851, 1998.
	C59	Gotch <i>et al.</i> , "New observations on cellular immune responses to HIV and T-cell epitopes," <i>Aids</i> , 11:S99-S107, 1997.
	C60	Graham and Wright, "Drug therapy, candidate aids vaccines," <i>Drug Ther.</i> , 333:1331-1339, 1995.
	C61	Guidotti, <i>et al.</i> , "Viral clearance without destruction of infected cells during acute HBV infection," <i>Science</i> , 284:825-829, 1999.
	C62	Hahn, "Viral Genes and Their Products," <i>Textbook of AIDS Medicine</i> , Chapter 3, pp. 21-43, Brother <i>et al.</i> , eds., Williams & Wilkens, Baltimore, MD, 1994.
	C63	Hargrave <i>et al.</i> , "Novel non-nucleoside inhibitors of hiv-1 reverse transcriptase, 1. tricyclic pyridobenzo- and dipyridodiazepinones," <i>J. of Med. Chem.</i> , 34:2231-2241, 1991.
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	C65	Ho, "Toward HIV eradication or remission: the tasks ahead," <i>Science</i> , 280:1866-1867, 1998.

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	C67	Huang <i>et al.</i> , "Effect of mutations in the nucleocapsid protein (NCP7) upon PR160(GAG-POL) and tRNA (lys) incorporation into human immunodeficiency virus type 1," <i>J. of Virology</i> , 71(6):4378-4384, 1997, Abstract.
	C68	Huston, "The biology of the immune system," <i>JAMA</i> , 278:1804-1813, 1997.
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	C73	Knight and Patterson, "Bone marrow-derived dendritic cells, infection with human immunodeficiency virus, and immunopathology," <i>Annu. Rev. Immunol.</i> , 15:593-615, 1997.
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	C76	LaCasse <i>et al.</i> , "Fusion-competent vaccines: broad neutralization of primary isolates of HIV," <i>Science</i> , 283:357-362, 1999.
	C77	Lamb-Wharton <i>et al.</i> , "Primate models of AIDS vaccine development," <i>Aids</i> , 11(suppl A):S121-S126, 1997.
	C78	Lanzavecchia, "Licence to kill," <i>Nature</i> , 393:413-414, 1998.
	C79	Letvin, "Progress in the development of an HIV-1 vaccine," <i>Science</i> , 280:1875-1880, 1998.
	C80	Letvin, "Vaccines against human immunodeficiency virus -- progress and prospects," <i>N.E. J. of Med.</i> , 329:1400-1405, 1993.

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	C81	Lin <i>et al.</i> , "Photoaffinity labeling by 4-thiodideoxyuridine triphosphate of the HIV-1 reverse transcriptase active site during synthesis," <i>J. Bio. Chem.</i> , 273:997-1002, 1998.
	C82	Loetscher <i>et al.</i> , "CCR5 is characteristic of Th1 lymphocytes," <i>Nature</i> , 391:344-345, 1998.
	C83	Long, "Signal sequences stop killer cells," <i>Nature</i> , 391:740-741, 1998.
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Form PTO-1449 (modified)		Atty. Docket N . RIOS:004USC2	Serial N . 10/667,534
List of Patents and Publications for Applicant's  INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)		Applicant Adan Rios	
		Filing Date: September 22, 2003	Group: Unknown
U.S. Patent Documents <i>See Page 1</i>		Foreign Patent Documents <i>See Page 1</i>	Other Art <i>See Page 1</i>

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	C118	Sylwester <i>et al.</i> , "CD4 <sup>+</sup> T-Lymphocyte Depletion in Human Lymphoid Tissue Ex Vivo Is Not Induced by Noninfectious Human Immunodeficiency Virus Type 1 Virions," <i>J. Virology</i> , 72(11):9345-9347, 1998.
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	C120	Tarasiev <i>et al.</i> , "Photochemoinactivation: a way to AIDS vaccine?," America Online: ARIOS927, Vol. 9 Issue/Part/Supplement 1, 1993 (Abstract).
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U.S. Patent Documents  
*See Page 1*Foreign Patent Documents  
*See Page 1*Filing Date:  
September 22, 2003Group:  
UnknownOther Art  
*See Page 1*

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